

## WHAT IS CLAIMED IS:

1. A heat exchanger comprising:

a core member including:

5 a plurality of hot-side fluid or gas transport passages for accommodating passage of a first fluid or gas therein;

10 a plurality of cold-side fluid or gas transport passages for accommodating passage of a second fluid or gas therein that is provided at a temperature less than that of the first fluid or gas, the hot-side and cold-side fluid or gas transport passages being in contact with one another to permit conductive heat transfer; manifolds connected to ends of the hot-side and cold-side fluid or gas passages to direct and receive the first and second fluids or gases into and from the respective hot-side and cold-side fluid or gas transport passages;

15 a flow director disposed within one of the manifolds to change the flow direction of the first or second fluid or gas passing therethrough.